

What is claimed is:

1. A method of manufacturing a rotor of an electric motor to be arranged inside a stator, comprising:

forming a permanent magnet in a ring-shape,

5 concentrically arranging a rotating shaft and the permanent magnet in a mold to have a space therebetween, and

pouring a rubber material in a fluid state into the space between the permanent magnet and the rotating shaft to vulcanize and mold a cushioning member having predetermined hardness so  
10 that the permanent magnet and the rotating shaft are integrally coupled through the cushioning member.

2. A method of manufacturing a rotor according to claim 1, wherein said permanent magnet is made of a plastic magnet, and  
15 when said cushioning member is vulcanized and molded in the space between the permanent magnet and the rotating shaft, a molding temperature is controlled to be equal to or less than a temperature at which the plastic magnet does not deform.

20 3. A method of manufacturing a rotor according to claim 1, wherein prior to vulcanizing and molding of said cushioning member, at least one of an inner peripheral surface of the permanent magnet and the rotating shaft is coated with an adhesive.

25 4. A method of manufacturing a rotor according to claim 1, wherein after vulcanizing and molding of said cushioning member, a joined portion between the rotating shaft and the cushioning member is further baked.

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5. A method of manufacturing a rotor according to claim 1, wherein said cushioning member is formed to have a plurality of through-holes parallel to said rotating shaft.

5 6. A method of manufacturing a rotor according to claim 1, wherein said cushioning member is formed to have a plurality of recesses on opposite surfaces thereof.